

QUALITY OF SURFACE WATER
WATERFALL FIRE MONITORING PROJECT

Water-quality measurements in the following table were made to monitor water chemistry and sediment concentrations associated with the Waterfall Forest Fire which occurred in July 2004. Information from these samples should help assess the impacts of vegetation loss on stream chemistry and sediment runoff.

WATER-QUALITY DATA, JULY 2004 TO OCTOBER 2004

Station number	Station name	Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)
10311100	KINGS CANYON CREEK NEAR CARSON CITY, NV	07-23-04	1520	Environmental	.28	.7
		09-03-04	1029	Environmental	.22	--
10311200	ASH CANYON CREEK NEAR CARSON CITY, NV	07-23-04	1415	Environmental	1.9	.5
		08-15-04	1818	Environmental	2.3	--
		08-15-04	1832	Environmental	3.7	--
		08-15-04	1842	Environmental	2.7	--
		08-15-04	1850	Environmental	2.2	--
		08-15-04	1920	Environmental	2.1	--
10311250	VICEE CANYON CREEK NEAR CARSON CITY, NV	08-15-04	1925	Environmental	2.2	--
		09-03-04	1430	Environmental	1.9	--
		10-19-04	1600	Environmental	3.7	--
		08-15-04	1845	Environmental	.21	--

Date	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm (00095)	Temper-ature, wat air, degC (00020)	Temper-ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes-iun, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chlor-ide, water, fltrd, mg/L (00940)
07-23-04	644	7.0	98	7.7	126	30.5	23.0	15.7	3.64	3.24	4.52	--	.54
09-03-04	--	--	--	--	--	--	--	--	--	--	--	--	--
07-23-04	642	8.5	108	8.0	97	31.5	18.3	14.7	1.97	2.85	5.77	--	.31
08-15-04	--	--	--	--	--	--	--	--	--	--	--	--	--
08-15-04	721	10.4	107	7.3	119	17.0	14.0	--	--	--	--	--	--
08-15-04	--	--	--	--	--	--	--	14.8	2.14	5.12	6.19	--	.46
08-15-04	--	--	--	--	--	--	--	--	--	--	--	--	--
08-15-04	--	--	--	--	--	--	--	--	--	--	--	--	--
09-03-04	--	--	--	--	--	--	--	--	--	--	--	--	--
10-19-04	--	--	--	7.9	143	6.0	6.0	17.2	2.75	4.58	6.82	66	1.49
08-15-04	--	--	--	5.9	570	--	--	126	19.8	32.5	6.70	--	7.16

Date	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, fltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)
07-23-04	<.2	25.1	1.4	--	E.08	.14	<.04	.10	<.008	.13	.149	.170	1.4
09-03-04	--	--	--	--	--	--	--	--	--	--	--	--	--
07-23-04	<.2	20.6	1.0	--	<.10	.12	<.04	<.06	<.008	.03	.037	.063	1.7
08-15-04	--	--	--	--	--	--	--	--	--	--	--	--	--
08-15-04	--	--	--	--	--	--	--	--	--	--	--	--	--
08-15-04	<.1	19.9	1.6	67	.87	.92	.05	.17	E.004	1.20	1.40	1.36	10.2
08-15-04	--	--	--	--	--	--	--	--	--	--	--	--	--
08-15-04	--	--	--	--	--	--	--	--	--	--	--	--	--
08-15-04	--	--	--	--	--	--	--	--	--	--	--	--	--
09-03-04	--	--	--	--	--	--	--	--	--	--	--	--	--
10-19-04	<.1	19.3	6.8	112	.28	.23	E.02	.10	<.008	.06	.109	.108	9.0
08-15-04	E.1	8.75	107	763	14	13	3.49	.99	.514	<.02	.53	.59	231

QUALITY OF SURFACE WATER
WATERFALL FIRE MONITORING PROJECT—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Iron, water, fltrd, ug/L (01046)	Mangan- esc, water, fltrd, ug/L (01056)	Suspnd. sediment, sieve diametr <.063mm (70331)	Sus- pended sediment percent (80154)	Sus- pended sediment concen- tration mg/L (80154)	Sus- pended sediment dis- charge, tons/d (80155)
07-23-04	216	12.4	--	4	<.01	
09-03-04	--	--	--	2	<.01	
07-23-04	336	13.8	--	5	.03	
08-15-04	--	--	--	59	.37	
08-15-04	--	--	--	--	--	
08-15-04	364	23.7	--	--	--	
08-15-04	--	--	43	233	1.4	
08-15-04	--	--	91	1,270	7.2	
08-15-04	--	--	95	5,580	33	
09-03-04	--	--	--	22	.11	
10-19-04	243	51.7	--	--	--	
08-15-04	53	661	72	--	--	

Remark codes used in this table:

< -- Less than
E -- Estimated value